

**Anti- $\gamma$ ENaC ( $\gamma$ -subunit epithelial sodium channel, neopeptide)****Mouse monoclonal antibody**

Subclass: IgG1/k

Clone: 11-35-1

CAT. NO.

**CAM 035-01**

---

SPECIFICITY	CAM 035-01 is specific for the neopeptide generated after proteolytic cleavage of human $\gamma$ ENaC and recognizes the C-terminal fragment.
IMMUNOGEN	Synthetic peptide sequence: VGGSIHKAC
TESTED APPLICATIONS	ELISA, WB, IHC-P, IHC-F, IF
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	CAM 035-01 is specific for the neopeptide generated after proteolytic cleavage of human ENaC and recognizes the C-terminal fragment starting from amino acid residue 182.

---

**PRESENTATION**

Content:	Available in 200 $\mu$ L and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

---

**APPLICATION**

**ELISA:** CAM 035-01 was used in ELISA.  
**WB:** CAM 035-01 was used in Western blot (1).  
**IHC:** CAM 035-01 was used in immunohistochemistry (1).  
**IF:** CAM 035-01 was used in immunofluorescence (1).

**TARGET**

The epithelial sodium channel (ENaC) of the kidney is necessary for extracellular volume homeostasis and normal arterial BP. Activity of ENaC is enhanced by proteolytic cleavage of the  $\gamma$ -subunit. In the  $\gamma$ -subunit, putative cleavage sites for prostatic kallikrein (similar site as prostatic), elastase, and plasmin exist. Prostatic kallikrein is a glycosylphosphatidylinositol anchored apical serine protease expressed in the collecting duct that activates  $\gamma$ ENaC at a site close to but in the C-terminal direction to the furin cleavage with putative release of a 43-residue inhibitory tract.

**REFERENCES**

1. Zachar RM, Skjødt K, Marcussen N, Walter S, Toft A, Nielsen MR, Jensen BL, Svenningsen P. The Epithelial Sodium Channel  $\gamma$ -Subunit Is Processed Proteolytically in Human Kidney. J Am Soc Nephrol. 2014 Jul 24. pii: ASN.2013111173. (epub ahead of print).

**CONDITIONS**

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.